Virudhunagar District Common Second Mid Term Test - 2024 V12Bio Standard 12 Marks: 50 BIOLOGY Time: 1.30 Hours Marks: 25 Part - I (Bio-Botany) Section - A L. Choose and write the correct answer with option code: 5×1=5 1) Which of the following are not regulating services of ecosystem services? ii) Recreation and aesthetic value i) Genetic resources iv) Climatic regulation iii) Invasion resistance d) i and iv c) i and ii b) ii and iv a) i and iii 2) The Ozone layer of troposhere is called d) Good Ozone c) Bad Ozone b) Ozone sheild a) Middle ozone 3) Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancer? d) Ozone c) Nitrous oxide b) Methane a) Ammonia 4) Match column I with column II Column II Column I i) William S Gaud I. Heterosis ii) Shull II. Mutation breeding III. Green Revolution iii) Cotton Mather IV. Natural Hybridisation iv) Muller and Stadler iii iν a) I П III IV I IV Π b) III c) IV П Ι III IV III I d) II 5) Which is the right representation of inverted pyramid food chain? a) Grasses \rightarrow Rats \rightarrow Snake \rightarrow Hawk b) Banyan Tree → Tree Birds → Beefles → Fungi c) Phytoplanktons → Zoo planktons → Fishes → Snakes d) Plants → Rats → Snake → Hawk Section - B II. Answer any three questions: 6) Define Ten percent law 7) Differentiate primary introduction from secondary introduction 8) What are the objectives of clean development Mechanism 9) What is CCS? 10) Write only the trophic levels of Detritus food chain. PUBBLESON WHAT LATED STREET TO Section - C III. Answer any three questions: 11) Draw a pyramid from the following details. Hawk - 50, Plants - 1000, rabbit & mouse 250+250, pythans & Lizard 100+50. 12) Write a short note on Heterosis 13) Which one gas is most abundant out of the four commonest green house gases? How that gas affect the plants (any 3) 14) Write a short note on PAR. (Photosynthetically Active Radiation) 15) What is Green House Effect? Draw the relative contribution of Green house Section - D 1×5=5 IV. Answer the following: 16) a) What are the effects of deforestation and benefits of agroforestry (OR)

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b) List out the types of ecosystem with examples.

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Part - II (Bio-Zoology) Section - A

Marks: 25

I. Write correct answers:

5×1=5

1) The most common substrate used in a distilleries for the production of ethanol is. b) Groundgram c) Molasses a) Soyameal d) Corn meal

2) Recombinant factor VIII is produced in the cells of the Chinese Hamster

a) Liver cells

b) blood cells

c) Ovarian cells

d) brain cells

3) Red data book is published by

a) WWF

b) ZSI

c) ICUN

d) UNEP

4) Cyclosporin - A is an immunosuppressive drug produced from

a) Aspergillus niger b) Manascus purpureus

b) Penicillium notatum

d) Trichoderma Polysporum

5) Match the following and choose the correct combination from the option given below

Column I

Column II

A. Mutualism

1. Lion and Deer

B. Commensalism

2. Round worm and Man

C. Parasitism

3. Birds Compete with squirrels for the nuts

D. Compettition

4. Sea anemone on hermit crab

E. Predation

5. Bernaeles attached to whales

Section - B

II. Answer any three questions:

6) What is biological oxygen demand.

7) What is genetically engineered insulin?

8) What are transgenic animals? Give examples?

9) What is a habitat?

10) Differentiate Natality and Mortality

Section - C Sectio

III. Answer any three questions:

11) Differentiate between somatic cell gene therapy and germline gene therapy 12) Write the key features of organic forming which is supercod as

13) What is soil permeability

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14) Explain hibernation and aestivation with examples

15) What is the key difference between primary and secondary sewage treatment

Section - D

IV. Answer any three questions:

List the advantages and disadvantages of cloning 16) List the advantages of biogas plants in rural areas

1×5=5

Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com